| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|-----------------|--------------------------------|---|---------------------|---------|------------------|
| L1 | 62 | isolated adj annular adj space | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 08:45 |
| L2 | 2380 | (138/112,113,114,148).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/09/29 09:12 |
| L4 | 518 | (166/163,166,169).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/09/29 09:19 |
| L5 | 9260 | end adj sub | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:19 |
| L6 | 93 | (166/242.3).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/09/29 09:19 |
| L7 | 4 51 | (166/115).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/09/29 09:19 |
| L8 | 24 | 5 and (L2 or L4 or L6 or L7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:32 |
| L9 | 3 | 5 and (annulus with vacuum) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:25 |

| L10 | 365 | double adj wall\$2 adj casing | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:25 |
|-----|-----|---|---|----|------|------------------|
| L11 | 303 | 10 and (vacuum air gas solid fluid tracer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:26 |
| L12 | 239 | 10 same (vacuum air gas solid fluid tracer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:26 |
| L13 | 143 | 10 with (vacuum air gas solid fluid tracer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:26 |
| L14 | 20 | I13 and perforat\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:28 |
| L15 | 21 | l13 and perforat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:28 |
| L16 | 21 | l13 and perforat\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON . | 2006/09/29 09:28 |
| L17 | 1 | 16 not 14 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:28 |

| L18 | 424 | perforat\$4 and (L2 or L4 or L6 or L7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:34 |
|-----|-----|---|---|------|-----|------------------|
| L19 | 205 | 18 and (sub collar) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:34 |
| L20 | 197 | 19 and (air vacuum gas solid fluid tracer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 09:34 |
| L21 | | (US-20050230105-\$ or US-20040238182-\$ or US-20020185313-\$ or US-20020112854-\$ or US-20020146835-\$ or US-20060090900-\$ or US-20020129936-\$).did. or (US-RE37109-\$ or US-6026897-\$ or US-5730220-\$ or US-3347319-\$ or US-0056234-\$ or US-4602796-\$ or US-3378077-\$ or US-3211230-\$ or US-3378077-\$ or US-3211230-\$ or US-3182726-\$ or US-6640908-\$ or US-6609568-\$ or US-6585045-\$ or US-6478096-\$ or US-6176307-\$ or US-5816326-\$ or US-6176307-\$ or US-5816326-\$ or US-4162093-\$). did. or (US-3347319-\$ or US-2978046-\$ or US-3511282-\$ or US-2588578-\$ or US-2468902-\$). did. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/09/29 10:36 |
| L22 | 7 | L21 and (perforat\$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/09/29 10:44 |
| L23 | 242 | double adj walled with perforat\$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/09/29 10:47 |
| S1 | 93 | (166/242.3).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR . | OFF | 2006/09/28 13:12 |

| S2 | 451 | (166/115).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/09/29 08:45 |
|----|-----|--|---|----|-----|------------------|
| S4 | 6 | (("6116343") or ("5595245") or ("5551513")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/09/28 14:14 |